

19980221.qrp v01_n008.qrs.980221

Date: Sat, 21 Feb 1998 19:03:31 EST
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 1008

QRP-L Digest 1008

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- 2) [4397] Fox Spot
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by "John A. Evans - N0HJ" <jaejans@codenet.net>
- 4) [4399] Re: Magnetic mounts
by "Robert P. Okas" <vintage@best.com>
- 5) [4400] Re: 9M0C and the CW DX COntest
by Monte Stark <ku7y@sage.dri.edu>
- 6) [4401] SMITtEn
by dave_epps@juno.com
- 7) [4402] re: PC's & QRP Rigs
by Joseph Everhart <n2cx@voicenet.com>
- 8) [4403] Re: HELP With DSP Software
by "W. Daniel, 9V1ZV" <daniel@pandora.lugs.org.sg>
- 9) [4404] Re: Key Clicks
by Zack Lau <zlau@arrl.org>
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by "Alyn Backe" <ve6bpr@cnnnet.com>
- 11) [4406] First Notification of Upcoming SE
by aa8yo@juno.com (Robert J Fox)
- 12) [4407] PIC AF Filters
by KC5TJA <kc5tja@topaz.axisinternet.com>
- 13) [4408] Re: HELP With DSP Software
by "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
- 14) [4409] Re: HELP With DSP Software
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- 15) [4410] Re: 2N2222 rig: Power amp behavior
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by doug hauff <slmachco@fix.net>
- 17) [4412] UPDATE ON SG-2020!
by AC6JA@aol.com
- 18) [4413] Re: HELP With DSP Software
by "Alyn Backe" <ve6bpr@cnnnet.com>
- 19) [4414] Tuna Tin 2

- by "QRPDave" <QRPDave@ocsnet.net>
- 20) [4415] "QTC, I Have a Message for You"
by "rohre" <rohre@arlut.utexas.edu>
- 21) [4416] Scout Info
by k7sz@juno.com
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by Phil Rutledge <rut@mcrut.mv.com>
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by Wm&Penny Kresl <kresl@elknet.net>
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- 25) [4420] Re: UPDATE ON SG-2020!
by Ed Tanton <n4xy@bellsouth.net>
- 26) [4421] CQC Contest on Sunday
by "Marshall Emm" <mgemm@mtechnologies.com>
- 27) [4422] CQC QSO Party Rules
by "Marshall Emm" <mgemm@mtechnologies.com>
- 28) [4423] Tixie's are starting to ship!
by Brad Mitchell <embres@FRONTIERNET.NET>
- 29) [4424] For Sale: HW-9 with WARC bands & uMatic Keyer
by Darrell Bellerive <Darrell_Bellerive@compuserve.com>
- 30) [4425] Help w/Alinco DR110
by "Timothy J. Pettibone" <tpettibo@nmsu.edu>
- 31) [4426] re PC's & QRP rigs
by kc4mhm@juno.com
- 32) [4427] Re: Sierra+KC-2 has slight warble?
by victnr@juno.com (Victor E Turner)
- 33) [4428] Re: SMITtEn
by Monte Stark <ku7y@dri.edu>
- 34) [4429] Re: HELP With DSP Software
by Monte Stark <ku7y@dri.edu>
- 35) [4430] QRP in ARRL-Contest
by Frank.DH0JAE@t-online.de (Frank Schuster)
- 36) [4431] Re: PIC AF Filters
by Leon Heller <leon@lfheller.demon.co.uk>
- 37) [4432] Re: HELP With DSP Software
by Terres Family <terresfm@ncia.net>
- 38) [4433] SGC-2020 RX current
by "Bob Edwards, W4ED" <w4ed@flash.net>
- 39) [4434] Elmer 101 - Your favorite DVM??
by "D.K. Philbin" <dphilbin@slonet.org>
- 40) [4435] Re: DR-110 Lamps
by nq2rp@juno.com (B/BAMS Club Station)
- 41) [4436] SGC-2020 computer command set?
by Paul Erickson <paul1@wizard.ucs.sfu.ca>
- 42) [4437] QRP/QRO TUNER
by ARDUJENSKI@aol.com
- 43) [4438] DXCC in a day.

by Monte Stark <ku7y@dri.edu>
44) [4439] RE: HELP With DSP Software
by tracy@orlando.com (Tracy)
45) [4440] Re: UPDATE ON SG-2020!
by Vic Rosenthal <rakefet@rakefet.com>
46) [4441] RE: Elmer 101 - Your favorite DVM??
by Conrad <radman@best.com>
47) [4442] Re: Help w/Alinco DR110
by Vic Rosenthal <rakefet@rakefet.com>
48) [4443] SMite is alive
by kc4mhm@juno.com
49) [4444] Re: PIC AF Filters
by "Bob Kellogg" <ae4ic@nr.infi.net>
50) [4445] Re: Help w/Alinco DR110
by Roger Hightower <n7kt@earthlink.net>
51) [4446] RE: Elmer 101 - Your favorite DVM??
by Ed Tanton <n4xy@bellsouth.net>
52) [4447] Tnx Fiber QRP
by K0su@kktv.com
53) [4448] Re: HELP With DSP Software
by "Ray Lowe" <wd5dhk@hotmail.com>
54) [4449] EPA QRP Web Page
by "Ron Polityka" <wb3aal@talon.net>
55) [4450] Re: DXCC in a day.
by "ALAN KAUL" <alan.kaul@worldnet.att.net>
56) [4451] Re: PIC AF Filters
by Laura Halliday <ve7ldh@direct.ca>
57) [4452] Fw: SW -30 troubles
by "Jeff s Walgren" <JWALGREN@prodigy.net>
58) [4453] Re: DXCC in a day.
by Dave Sjolin <sjolin@swbell.net>
59) [4454] Re: Help w/Alinco DR110
by "Ray Lowe" <wd5dhk@hotmail.com>
60) [4455] sst rcvr
by dave_epps@juno.com
61) [4456] Interest in single lever paddle?
by "Marshall Emm" <mgemm@mtechnologies.com>
62) [4457] Ten open for DX
by rheiss@sprynet.com (Rob Heiss)

Date: Fri, 20 Feb 1998 19:16:26 EST
From: Shephed@aol.com
To: qrp-1@Lehigh.EDU
Subject: [4396] Fox Spot!
Message-ID: <5615b2ca.34ee1cdd@aol.com>
Mime-Version: 1.0

email: jaevans@cos.cst.titan.com Colorado Springs, CO 80907-3535

Norcal #262 QRP-L #219 QRP-ARCI #8303 NE-QRP #213 CQC #045
CQrp #15 NJ-QRP #50 AK-QRP #52 NW-QRP #454 FISTS #3184
Personal Web Page: <http://www.geocities.com/capecanaveral/9773/>

Date: Fri, 20 Feb 1998 16:39:28 -0800 (PST)
From: "Robert P. Okas" <vintage@best.com>
To: "Russell W. white" <ruswhite@netzone.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [4399] Re: Magnetic mounts
Message-ID: <Pine.BSF.3.96.980220163016.19513B-100000@shell14.ba.best.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Russ,

I've run the 3-magnet version of the Lakeview Mfg. Co. mount with 20m and 40m Hamsticks with no problem at highway speeds. I place my mount on the trunk lid of a Taurus and it stays put even at speeds exceeding 75 mph, not that I drive that fast ;-} ;-} ;-} At HF, the magnets don't provide enough capacitive coupling to car's frame, so I attached a short, braided grounding strap between the mount and frame.

73,
Bob - W3CD

Date: Fri, 20 Feb 1998 16:42:14 -0800 (PST)
From: Monte Stark <ku7y@sage.dri.edu>
To: "John A. Evans - N0HJ" <jaevans@codenet.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [4400] Re: 9M0C and the CW DX COntest
Message-ID: <Pine.SUN.3.90.980220164120.27590B-100000@vortex>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi John and all,

9M0C posted that they will NOT be in the contest. They will

be on SSB and WARC bands.

Go get em'!

73, Ron, SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

Date: Fri, 20 Feb 1998 16:42:10 -0800
From: dave_epps@juno.com
To: qrp-l@Lehigh.EDU
Subject: [4401] SMITtEn
Message-ID: <19980220.164213.10118.0.dave_epps@juno.com>

Received my SMITE kits today and it is sure "small".
I've never built anything with surface mount tech so this will be a new
and
learning experience.
I there anyone on the west coast also building a SMITE?
dave ab5pc fresno, ca

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Or call Juno at (800) 654-JUNO [654-5866]

Date: Fri, 20 Feb 1998 20:05:45 -0500
From: Joseph Everhart <n2cx@voicenet.com>
To: kd1jv@moose.ncia.net
Cc: qrp-l@Lehigh.EDU
Subject: [4402] re: PC's & QRP Rigs
Message-ID: <199802210105.UAA61924@nss4.cc.Lehigh.EDU>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 12:50 PM 2/20/98, you wrote:
>>Gang and Technoids in particular:
>> What a great idea, a QRP rig on a PCMCIA board with a logging
>>program all running on WIN 95. Log and operate at the same time. How

>>much time do I have to learn how to type?
>>
>Heck, might as well make it decode CW also. Then it can auto log. Might as
>well make it do all digital modes as well.
>
>
>Steve, KD1JV....In the White Mountains of New Hampshire
>
>"Melt Solder"
>

Shucks, why bother with the radio? We all have the same functions now
with qrp-1 without all the messy RF propagation problems.

In fact, why do we need an operator. Just set up an "agent" to work
everybody on qrp-1 without the need for a human!

And, what's more, youi could set it up randomly to look for valid e-mail
addresses on other e-mail reflectors and news groups then use those
addresses to work those folks. Yeah, who needs a radio, anyway? ;-)

Date: Sat, 21 Feb 1998 09:02:41 +0800
From: "W. Daniel, 9V1ZV" <daniel@pandora.lugs.org.sg>
To: kd7s@psnw.com
Cc: qrp@pandora.lugs.org.sg
Subject: [4403] Re: HELP With DSP Software
Message-ID: <34ee27b4.pandora@pandora.lugs.org.sg>

On Fri, 20 Feb 1998 10:36:58 -0800, "Bill Jones" <kd7s@psnw.com> wrote:
> <1. Can this type of software be used in place of CW filters in an HF xcver?>
>
> Probably not. The CW filters in your HF transceiver are most likely crystal
> filters and work at an intermediate (i.f.) frequency of several megahertz. The
> SbFFT software works at audio frequencies. You can certainly augment your
> transceiver's crystal filters with SbFFT, however. Depending upon the filters
> already in place, the improvement may be significant.

Not true Bill. His question referred to "an" HF xcver and not "my" HF xcver.
In fact, Dennis, you will find that it is being used in a number of HF
receivers of various grades from the IC-706 MkII (as an option), to Kenwood
TS-570D, TS-870S, FT-1000MP, IC-756 and so on. It is becoming more popular
with implementations both in the audio as well as in the IF stages. So the
answer to your question is a "yes".

73 de 9V1ZV Daniel

--

```
+-----+-----+
| Daniel Wee | daniel@pandora.lugs.org.sg |
| 9V1ZV      |                               |
| QRP-L #667 | 9V1ZV@amsat.org                     |
+-----+-----+
```

Date: Fri, 20 Feb 1998 20:16:27 -0500
From: Zack Lau <zlau@arrl.org>
To: qrp-l@Lehigh.EDU
Subject: [4404] Re: Key Clicks
Message-ID: <34EE2AEB.682C@arrl.org>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

The QRP Three bander I published in October 1989 QST has textbook keying--despite QSK and a keyed wideband VXO. However, I've not been able to figure out how to use the same crystal on receive and transmit and still get the ability to set your transmitter within a few tens of Hz of that weak QRP station you want to work without resorting to test gear... Zack W1VT

Just because kilobuck transceivers can't do it is no excuse...

Date: Fri, 20 Feb 1998 18:22:22 -0700
From: "Alyn Backe" <ve6bpr@cnnnet.com>
To: <DENNISMO@aol.com>
Cc: "QRP-L" <qrp-l@Lehigh.EDU>
Subject: [4405] Re: HELP With DSP Software
Message-ID: <01121649033221@cnnnet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Hello Denny.

Yes, you can substitute the DSP software in place of expensive I.F. CW filters. I have been using the DSP software here, and it does a fantastic job. The software filter can be set to any center frequency, and can be

narrowed down to just a few hz if you so desire. It is completely adjustable. I have totally eliminated qrm that was 100 hz or less away. I connected the audio from my HF rig to the sound card by taking receive audio from the external speaker jack on the back of my hf rig. I fed this into an audio transformer, 8 ohms one side, 500 ohms the other side. The 8 ohm side I connected to the hf rig speaker jack, the 500 ohm side I fed to my LINE INPUT connector on my sound card. The transformer I used was one I got from radio shack. Don't know the part number off hand. It has a 1000 ohm center tapped secondary, and I just used the center tap, and one other side of the transformer to get the 500 ohms. Keep the volume control on your hf rig quite low. By the way, the software also makes an excellent ssb filter. Have fun!

Best 73, AL, VE6BPR.....sk

From: DENNISMO@aol.com
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: HELP With DSP Software
Date: Friday, February 20, 1998 11:13 AM

72' es 73's to all...

I just downloaded a DSP Freeware program for a SoundBlaster equipped PC and I have a couple of questions that some of you may be able to help me out with:

1. Can this type of software be used in place of CW filters in an HF xcvr?
2. How do I connect my xcvr to my PC's SoundBlaster board?

Thanks in advance fellas..

72's de KF6NJQ

Denny Morales

Date: Fri, 20 Feb 1998 19:46:28 EST
From: aa8yo@juno.com (Robert J Fox)
To: qrp-1@Lehigh.EDU
Subject: [4406] First Notification of Upcoming SE
Message-ID: <19980220.194444.2527.0.aa8yo@juno.com>

Gang,

Please be advised of an upcoming Special Event that yours truly will be participating in.

To commemorate the aircraft carrier launched B-25 WWII raid led by Jimmy Doolittle in 1942, the Stu Rockafellow Amateur Radio Club will be sponsoring a SE at the Yankee Air Force Museum at Willow Run Airport in Belleville, MI on April 18, 1998 from 1300 to 2200 UTC.

I will be operating the only CW station on 30 meters with a target freq. of 10.116. I will have my ears tuned for QRP signals.

Notification of this event will be in the April QST.

On a different note, I just got this Juno email account and am wondering if there is a way to delete more than one message at a time ?

Thanks and please forward any responses to aa8yo@tir.com

73 - Bob / aa8yo@tir.com

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com>
Or call Juno at (800) 654-JUNO [654-5866]

Date: Fri, 20 Feb 1998 18:30:37 -0800 (PST)
From: KC5TJA <kc5tja@topaz.axisinternet.com>
To: qrp-1@Lehigh.EDU
Subject: [4407] PIC AF Filters
Message-ID: <Pine.LNX.3.96.980220182933.13944A-100000@topaz.axisinternet.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I'm wondering if it'd be feasible to make an audio filter using a PIC chip, using 1-bit A/D and D/A conversion techniques. Does the PIC chip have enough memory and processor bandwidth to do this sort of thing? What would be involved?

Just wondering -- not yet ready to build, but it may come in handy for my little rig that I'm still trying to build... :)

=====

KC5TJA/6
DM13
QRP-L #1447

-| TEAM DOLPHIN |-
Samuel A. Falvo II
Chief Architect and Project Founder

Date: Fri, 20 Feb 1998 20:39:14 -0500 (EST)
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
To: Bill Jones <kd7s@psnw.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [4408] Re: HELP With DSP Software
Message-ID: <Pine.SOL.3.94.980220202609.8672F-100000@larry>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Just a supplement to notes on audio DSP vs. IF filtering. Although IF filtering, especially steep sided filters with deep ultimate filtering, are best at eliminating adjacent channel interference and eliminating such problems as AGC thumping, audio DSP has its place to supplement these filters. I happen to have a TimeWave 599xz (won at a Christmas banquet by my YL, N4TZP), and it works wonders at suppressing random noise within the channel allowed by the IF filter. It has many other features that come in handy, like variable upper and lower bandpass frequencies, but the random noise suppression feature is the one used most here. Other DSP units may have similar capabilities.

Complementary filtering really consists of two steps. First, keep out everything except that bandpass you have to have in order to find the signal. Second, clean out the bandpass of everything except the signal you want. IF DSP is capable of both functions, but so far the implementations I have seen have not lived up to the standard set by excellent IF filtering (crystal or mechanical) plus audio DSP. (However, I have not tested the latest generation of gear yet, so I may be behind.) Remember that it took at least 2 or 3 generation of synthesized rigs before they came close to living up to the noiseless standard of crystal mixing rigs (and some argue that they have not quite achieved that level yet).

-73-

LB, W4RNL

Date: Fri, 20 Feb 98 17:39:08 PST
From: Paul Erickson <paul1@wizard.ucs.sfu.ca>
To: ve6bpr@cnnnet.com
Cc: qrp-1@Lehigh.EDU (qrp)
Subject: [4409] Re: HELP With DSP Software
Message-ID: <9802210139.AA16397@wizard.ucs.sfu.ca>

>
> Hello Denny.
> Yes, you can substitute the DSP software in place of expensive I.F. CW
> filters. I have been using the DSP software here, and it does a fantastic
> job. The software filter can be set to any center frequency, and can be
> narrowed down to just a few hz if you so desire. It is completely
> adjustable. I have totally eliminated qrm that was 100 hz or less away. I
> connected the audio from my HF rig to the sound card by taking receive
> audio from the external speaker jack on the back of my hf rig. I fed this
> into an audio transformer, 8 ohms one side, 500 ohms the other side. The 8
> ohm side I connected to the hf rig speaker jack, the 500 ohm side I fed to
> my LINE INPUT connector on my sound card. The transformer I used was one I
> got from radio shack. Don't know the part number off hand. It has a 1000
> ohm center tapped secondary, and I just used the center tap, and one other
> side of the transformer to get the 500 ohms. Keep the volume control on
> your hf rig quite low. By the way, the software also makes an excellent ssb
> filter. Have fun!
> Best 73, AL, VE6BPR.....sk
>
Hi Al,

Under what conditions are you using it? I have found the dsp filters are fine in a relatively quiet band, but under contest conditions, unless there is a good crystal filter in the if to keep adjacent strong signals from pumping the agc, the dsp is not worth much. Granted, I have only experimented with TimeWave filters, and not the configuration you mention.

Looking forward to your comments.

cheers, Paul VE7CQK/email: paul1@wizard.ucs.sfu.ca

Date: Fri, 20 Feb 1998 20:49:04 -0500 (EST)
From: Fran Flynn <fflynn@together.net>
To: traylor@ECE.ORST.EDU
Cc: qrp-1@Lehigh.EDU
Subject: [4410] Re: 2N2222 rig: Power amp behavior

Message-ID: <199802210149.UAA22325@sequoia.together.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 01:31 PM 2/20/98 -0800, you wrote:

>Guys,

> Last night I was working on my PA in my 2n2222 rig. I set
> the output network to look like 50 ohms at the PA collector
> enabling 1.5W of output power with a Vcc of 12V. While I
> know that a single 2n2222 can't do this, I tried it anyway
> for grins.
>
> With 100mw drive to the final, the output jumps to 600mw. As
> the key is held down, the output would rapidly go down to
> about 200mw over 3-4 seconds.
>

The temperature of the transistor junction rises much more and earlier than the transistor case would. I think you may be seeing thermal runaway, assuming that the device recovers as it cools down, if not then perhaps you are seeing destruction of the transistor.

Just out of curiosity, what is the RF frequency?

(I'm working on a 80 meter 2222 rig, on and off)

Fran Flynn
amateur radio: KM1Z
email: fflynn@together.net
web page: <http://together.net/~fflynn>

Date: Fri, 20 Feb 1998 17:50:13 -0800 (PST)
From: doug hauff <slmachco@fix.net>
To: qrp-l@Lehigh.EDU
Subject: [4411] Powder Coated Bases (K8FF/NorCal Paddle Kit)
Message-ID: <199802210150.RAA23590@fletch.fix.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Powder coated bases for the K8FF/NorCal paddle kits are now available only as outright purchase, no exchanges. Shipping and handling costs considered, exchanging bases is simply not worth the time, effort and grief involved. Colors available are red, black, and blue, cost is \$20 & \$5 shipping.

72 Doug KE6RIE

Date: Fri, 20 Feb 1998 20:54:06 EST
From: AC6JA@aol.com
To: qrp-1@Lehigh.EDU
Subject: [4412] UPDATE ON SG-2020!
Message-ID: <669644d3.34ee33c0@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

SGC updated their webpage on the new SG-2020 rig. power consumption has once again been increased to now 430ma. also delivery schedule has been pushed to MARCH 15.

still have my order in though! but for how much longer i don't know!!

Mike AC6JA/qrp

Date: Fri, 20 Feb 1998 19:03:26 -0700
From: "Alyn Backe" <ve6bpr@cnnnet.com>
To: <paul1@wizard.ucs.sfu.ca>
Cc: "QRP-L" <qrp-1@Lehigh.EDU>
Subject: [4413] Re: HELP With DSP Software
Message-ID: <01525899233390@cnnnet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Hi Paul.

I'm using the freeware sbfft12 program available. I'm listening to a contest at the moment, and hearing only the signal I choose to hear. I can go as narrow as I choose, although you get a little ringing when the bandpass is set to say 40 hz or so har. I'm testing the software on a kenwood ts-430s, with no optional i.f. filters. I chose not to spend a few hundred dollars on i.f. filters, when audio filters have done the job for me over the last 20 years. I prefer to put the money towards more QRP kits hi. Obviously, a narrow i.f. filter is going to be the ultimate, and prevent some AGC pumping when the qrm is extremely strong, but narrowing the bandpass to whatever I want, allows me to copy the WANTED station anyways. A combination of narrow i.f. filters, and DSP would be fantastic, but I'm not a millionaire. It's making the difference between copy, or no

copy for me. I'm very impressed with the software. It is a program written for the IBM compatible, and requires a minimum of a 486 DX2/66 processor. Give the software a try, I think you'll like it!
Best 72/73, AL, VE6BPR.....sk
ve6bpr@cnnnet.com

Hi Al,

Under what conditions are you using it? I have found the dsp filters are fine in a relatively quiet band, but under contest conditions, unless there is a good crystal filter in the if to keep adjacent strong signals from pumping the agc, the dsp is not worth much. Granted, I have only experimented with TimeWave filters, and not the configuration you mention.

Looking forward to your comments.

cheers, Paul VE7CQK/email: paul1@wizard.ucs.sfu.ca

Date: Fri, 20 Feb 1998 18:13:29 -0600
From: "QRPDave" <QRPDave@ocsnet.net>
To: <QRP-L@Lehigh.EDU>
Subject: [4414] Tuna Tin 2
Message-ID: <19980221021424843.AAA201@QRPDave>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Hi guys!

Due to vision problems, I would have a hard time building the Tuna Tin 2. Is there someone out there who could put one together for me? Drop me a note and include parts and labor. I might also be interested in the Herrring Tin 5. Thanks!

QRPDave
KE6PUF

Date: 20 Feb 1998 20:16:18 -0500

From: "rohre" <rohre@arlut.utexas.edu>
To: "gqrp" <gqrp-1@blacksheep.org>, "Hal Henegar" <JCVP11A@Prodigy.com>, "Jeff Schmidt" <Jeff_Schmidt@aprdlgtr.sps.mot.com>, "Jim Neely" <jmneely@ibm.net>, "Lloyd B. Crawford" <n5gdb@texas.net>, qrp-1@Lehigh.EDU
Subject: [4415] "QTC, I Have a Message for You"
Message-ID: <n1324116670.6788@msmailgw1.arlut.utexas.edu>

The author of the popular book title in the subject line; (on the life of a Ship's Radio Operator), Ray Redwood, KA5HCX, passed away Feb. 14, after an accident two weeks earlier when he was struck by a vehicle while crossing a busy road to a bus stop in Austin, TX.

Ray was originally from the United Kingdom. The world was his home as a ship's officer, and he came out of retirement to once again sail as "SPARKS" during Desert Storm. SPARKS was how he signed his book, as that is the real name of every ship's operator.

Ray had worked some of the QRP-L gang, and some good DX with simple antennas, as he was an avid and perhaps exclusively CW operator, using his professional bug to key his Ten Tec rig.

Ray was 77, and had hoped to live much longer as his mother in England lived to 98, I believe, and another relative over 100. But, it was not to be, for Ray had slowed down in recent times, and no longer could drive, so depended on buses to get around. However, he stayed on the go, and had gone out to eat the rainy day of the accident. He had stayed active writing to many of his contacts, and friends around the world; and even if his physical skills had lessened, his CW was fast and he could still climb the attic ladder to his shack. Ray came to ham radio rather late in his radio career, but tried very hard to work DX, even from a modest garden (yard) and low site.

This only sharpened his interest in antennas, and that is how I came to know him, in helping with first one antenna project and then another. We homebrewed a G5RV together after I discovered how well they can work. But ever eager for DX, his next antenna project was an R5 vertical. Unfortunately, the occasional freak wind storms we have ate this antenna, and so it was replaced by the Gap Titan like one I had successfully used. What Ray really wanted was a beam, but with such a small lawn, populated with some trees close to the house, I was not sure he could fit one in. But Ray had the true ham spirit to find a way, and thus a modest tower and multi band beam came to be his final DX grabber.

Unfortunately, this came about at the bottom of the Sun Spot cycle. All I could do was encourage him to learn more about grey line, and other forms of propagation, and await the coming climb in solar help. I wish Ray could have made it to the peak of this coming cycle.

Having seen what can be in the great cycle of 1957-1958, I know the DX will be

rolling in on some band at any hour of the day. Well, I hope Ray now has the best and highest antenna site of all.

73 and Thanks for your book old friend,
Stuart K5KVH ex 9M2SM

(Ray's son may continue to reprint the book. Ray had dreamed of doing a revised edition; I will advise when I know.)

Date: Fri, 20 Feb 1998 21:17:32 EST
From: k7sz@juno.com
To: qrp-l@Lehigh.EDU, qrp@qth.net, tentec@contesting.com, tentec@qth.net
Subject: [4416] Scout Info
Message-ID: <19980221.032139.8639.1.k7sz@juno.com>

MANY, many thanks to all who responded (about 40 of you!)

Lots of good info and comments, along with some things to ponder.

One comment that surfaced in almost every single response was the "hopping" of the VFO during high speed CW. This would prove to be a real hassle to me, since I work CW almost exclusively.

Other comments sung the praises of this simple but interesting radio. Many commented about the cost cutting measures done by T-T to keep the price down and the expense and inconvenience of the having to deal with band modules. Almost everyone said the noise blanker should have been included along with a hand mic as part of the rig's base price.

Only one individual commented on the noisy receiver. He claimed that receiver in his Scout (a 556) was so fraught with "whine" (possibly phase noise?) that he could not use headphones!

This weekend I get to play with one. One of the locals has a Scout 556 that he said I could use for a few days to find out if I liked it well enough to trade off my entire shack to afford the new rig.

In the mean time, I will consider offers on my primo/mint Century-22 and Yaesu FT-301SD, just in case I need some fast cash to send to Tennessee.

73 rich K7SZ

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Or call Juno at (800) 654-JUNO [654-5866]

Date: Fri, 20 Feb 1998 21:11:21 -0500
From: Phil Rutledge <rut@mcrut.mv.com>
To: AC6JA@aol.com, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [4417] Re: UPDATE ON SG-2020!
Message-ID: <199802210216.VAA19826@mercury.mv.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 08:54 PM 2/20/98 -0500, AC6JA@aol.com wrote:
>SGC updated their webpage on the new SG-2020 rig. power consumption has once
>again been increased to now 430ma. also delivery schedule has been pushed to
>MARCH 15.
>still have my order in though! but for how much longer i don't know!!
>
>Mike AC6JA/qrp

And the beat goes on..... :-)

===Phil=== (K1HS)

Date: Fri, 20 Feb 1998 20:50:02 -0600
From: Wm&Penny Kresl <kresl@elknet.net>
To: qrp-1@Lehigh.EDU
Subject: [4418] 20m CENTENNIAL Xcvr -Low RF Out Correction
Message-ID: <3.0.5.32.19980220205002.008a6510@elknet.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Thanks to list member Jeff Gold for calling this to my attention:

I just looked at my 20m Centennial PC board. I originally described the
WIPED OUT
PC trace on N90EH's board in the WRONG POSITION in my previous post to the
group.

Looking at the TOP silk-screened lettering side of the board, a jumper wire
should be visible at the top-center of the board -marked JUMP. This is the

trace

I was referring UNDERNEATH the board. Approximately 1" away from this JUMP is a 90degree bend, that is where my friend's trace was missing. This trace goes to the relay.

73,
Bill-WB9BBC

Date: Fri, 20 Feb 1998 21:50:05 -0600
From: Lynn Simons <lsimons1@ix.netcom.com>
To: wd5dhk@hotmail.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [4419] Re: sloppy code...sort of
Message-ID: <34EE4EED.4F57@ix.netcom.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Ray Lowe wrote:

> BTW- that is one of the big drawbacks of depending too much on tapes
> and computers to learn code. There just is no substitute to getting on
> the air if you want to do more than just pass a cw test.

Hi Ray,

You are so right! That is exactly the encouragement I give any ham who asks about the code, whether they're just learning it or trying to increase their speed. And I can't say it enough. Get on the air and make QSO's. And to top it off, it's fun!

73/72,

Lynn, KJ3V
Birmingham, AL

Thanks for the tip Mike... I've been checking once or twice a week... I figured to start with that you could add weeks or even months to that original targeted delivery date... I've watched many a manufacturing target date slip on brand new products... and this product really might as well be coming from the ground > up... so the delays haven't been very much of a surprise... all I ask is that when they finally DO ship, the product is RIGHT. As I understand it, untested, non-operating, Signal One CX-7As ('Bs? 11's?) were actually shipped out the doors from the California plant, they (Signal One / got so desperate-or were so near "the end"- I suppose, way back when. I'd rather SGC took whatever time they need to do the job correctly, the first time.

Perhaps the '2020 will take over!!! Let's hope it simply does everything it is spec'd for, and that their QC people make sure of that BEFORE shipping any. I'll be a really happy camper, if so!!!

73

INTERESTS:	QRP	BoatAnchors	Test Equipment	Photography
CW: 99.9%		Mercury Paddle # 0214		QRP to 150W: 95%

"Think you can, think you can't: either way you're right!" Henry Ford

Date: Fri, 20 Feb 1998 20:54:23 -0600
From: "Marshall Emm" <mgemm@mtechnologies.com>
To: qrp-1@Lehigh.EDU, cqclist@lists.csn.net
Subject: [4421] CQC Contest on Sunday
Message-ID: <199802210353.UAA11738@edison.chisp.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

Well, gang-- it won't be long now! The CQC Winter QSO Party is on Sunday from 2200-0359Z.

Yep, there's a two hour overlap with that DX thing, but with luck they will leave a hole or two for us around 20.060 (yeah right).

I'll post the complete rules in another message, but meanwhile please note the exchange is RST SPC NAME CQC#/power (i.e. power if you don't have a CQC number).

Rules are also on the web site: <http://www.mtechnologies.com/cqc>

As usual, W0CQC is worth a THOUSAND bonus points. This time it will be operated by Paul, KF7MD, who has a big antenna up on that mountain there and should be workable from just about everywhere.

See you Sunday.... and good luck in the contest....

73
Marshall Emm
N1FN/VK5FN
n1fn@mtechnologies.com
Milestone Technologies
Software, kits, tools...
<http://www.mtechnologies.com>
(303)752-3382
--

Date: Fri, 20 Feb 1998 20:54:23 -0600
From: "Marshall Emm" <mgemm@mtechnologies.com>
To: qrp-1@Lehigh.EDU, cqclist@lists.csn.net
Subject: [4422] CQC QSO Party Rules
Message-ID: <199802210353.UAA11741@edison.chisp.net>

MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

Colorado QRP Club announces the 1998 CQC WINTER QSO Party

Date/Time: Sunday, February 22, 1998
2200 UTC Feb.22 to 0359 UTC Feb.23

Exchange: RS(T), State/Province/Country, First Name, and Member # if
CQC
member, power output if not.

ie: 579 CO Jim NR 04

Suggested frequencies:

CW - 1825, 3560, 3710, 7040, 7110, 14060, 21060, 21110, 28060,
28110
SSB - 1910, 3985, 7285, 14285, 21385, 28385

No contacts on 30, 17 and 12 meters allowed

Classes: Single Band, Multi-band (all single operator only)

QSO Points:

CW - CQC member 6 pts, non-member 4 pts
SSB - CQC member 3 pts, non-member 2 pts

Multiplier: States/Provinces/Countries worked.

The same station may be worked on different bands for additional
QSO
points and multipliers. Contacts on the same band using a
different
mode counts for QSO points, but not as an additional multiplier.

Names: Total of first names from Name sheet. One first name per
letter of the alphabet. Name must be your commonly used name.

Score: Total Score = QSO Points x Multipliers x Names

*Bonus points for working Club Station W0CQC - Add 1000 points to
your
FINAL score for working W0CQC.

Power: Stations must use 5 watts or less output, CW or SSB. There are
no power multipliers.

Awards: To Be Determined, Highest Score in each class.

Submit log (postmarked within 30 days of contest end) showing:

Band, Mode, Time UTC, Station Called, RST Rc'd, SPC Rc'd, Name Rc'd,
Memb# Rc'd (or pwr out if not CQC member), SPC Mult., Name mult.
Points.

On a cover sheet include your name, call, SPC, CQC# (if member),
power
used. A description of your rig, antenna, and comments would be
appreciated. Also include a score recap, the calculation of your
total
final score.

Electronic logs, in ASCII text format only, may be sent to:
EJim@aol.com

For sample Log and Name sheets, send SASE and one unit first class
postage to:

Jim-KG0PP-CQC Contest
P.O.Box 31575
Aurora CO 80041-0575

73
Marshall Emm
N1FN/VK5FN
n1fn@mtechnologies.com
Milestone Technologies
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(303)752-3382
--

Date: Fri, 20 Feb 1998 21:20:28 -0500
From: Brad Mitchell <embres@FRONTIERNET.NET>
To: "'qrp-1@lehigh.edu'" <qrp-1@Lehigh.EDU>
Subject: [4423] Tixie's are starting to ship!
Message-ID: <01BD3E45.60D550A0@srv-16-47.roc.ny.frontiernet.net>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: quoted-printable

Sorry for the delays , but we're starting to ship the Tixie board chip =
combo's out tomorrow (Saturday) We just received the boards today, and =

we're backlogged, but will get a big start tomorrow on shipping these =
out.=20

Thanks for your patience!

Brad Mitchell WB8YGG & Gary Diana N2JGU
Embedded Research=09
P.O. Box 92492 Rochester , NY
14692
embres@frontiernet.net
<http://www.frontiernet.net/~embres>

Date: Fri, 20 Feb 1998 23:26:30 -0500
From: Darrell Bellerive <Darrell_Bellerive@compuserve.com>
To: qrp-1 <qrp-1@Lehigh.EDU>
Subject: [4424] For Sale: HW-9 with WARC bands & uMatic Keyer
Message-ID: <199802202327_MC2-3429-D4FF@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: quoted-printable
Content-Type: text/plain; charset=ISO-8859-1
Content-Disposition: inline

For Sale:

Heathkit HW-9 QRP transceiver with:

- * WARC Bands
- * DC Power cord
- * Manual
- * HW-8 Handbook (many HW-9 mods)
- * 2 large 2 ft by 4 ft schematics
- * handwritten bibliography of mod articles

In good condition. Only one modification. The VFO vernier was replace wit=
h

a higher ratio drive. It now tunes about 15 kHz per rev rather than 40, b=
ut

it does take 18 turns to cover the 250 kHz dial. The old vernier drive is=

included but a new VFO Dial Bracket would have to be fabricated if you
wanted to go back to the old drive.

The radio has many birdies and is not as sensitive as my Argo 509. This
would be a good rig for someone wanting to do considerable modifications.=

This was my intention, but just don't have the time. Probably would be a bit disappointing as it is. It would be a great rig to use for the mods in QRPp.

\$250 US or best offer.

Heathkit SA-5010A uMatic Memory keyer with:

- * Manual
- * Capacitive touch paddles
- * Requires 12 VDC

In good condition. Off button sometimes does not work, and keyer sometimes turns itself on. Never turns itself off so it won't let you down in a QSO.

\$40 US or best offer.

Please email to Darrell_Bellerive@compuserve.com

Darrell Bellerive
VE7CLA

Date: Fri, 20 Feb 1998 21:47:47 -0700
From: "Timothy J. Pettibone" <tpettibo@nmsu.edu>
To: qrp-l@Lehigh.EDU
Subject: [4425] Help w/Alinco DR110
Message-ID: <3.0.3.32.19980220214747.0068c7fc@dante.nmsu.edu>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Gang:

Sorry if you don't think this is qrp-related but...I've had an Alinco DR110 2-meter mobile rig for several years. I keep burning out the incandescent lamps. They are little tiny things - I think T 3/4 or smaller. Some call them grains of wheat - more like grains of sand. The voltage on the board for all of them (2 for the LCD display and 3 for the pushbutton switch bar)

is 12v (13.7 on my power supply). They are hard to replace and now I can't find a source. The Alinco website lists parts for the DR110T which I think is different from the DR110 but am not sure. Two questions, do any of you know why I may be popping these little buggers? And do you know where I can find some 14-18v equivalents? None of my catalogs show 12v or higher T 3/4. Lot's of 5v but none higher. Thanks. Hope you consider little lamps qrp-related.

Tim K50I

Date: Sat, 21 Feb 1998 00:46:28 -0500
From: kc4mhm@juno.com
To: qrp-1@Lehigh.EDU
Subject: [4426] re PC's & QRP rigs
Message-ID: <19980221.004629.3262.0.KC4MHM@juno.com>

>Gang and Technoids in particular:

> What a great idea, a QRP rig on a PCMCIA board with a logging
>program all running on WIN 95. Log and operate at the same time. How
>much time do I have to learn how to type?

>
Heck, might as well make it decode CW also. Then it can auto log. Might
as
well make it do all digital modes as well.

Steve, KD1JV....

Point well taken; let KISS reign, and we all can enjoy more.

73 Ed KC4MHM@juno.com

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Date: Sat, 21 Feb 1998 01:36:17 EST
From: victnr@juno.com (Victor E Turner)
To: Arjen.Raateland@vyh.fi
Cc: qrp-1@Lehigh.EDU
Subject: [4427] Re: Sierra+KC-2 has slight warble?
Message-ID: <19980221.003249.7335.0.Victnr@juno.com>

Arjen: I had this problem and corrected it by reducing the size of the coupling cap to the minimum that will allow the frequency readout to function. the vfo is loaded very slightly when it is being counted and that load impedance varies slightly. I used a 2.5 to 7.5 pf trimmer (straight wire) adjust it for the minimum value that will trigger the counter.

Good Luck

Vic Turner/WA6EIW

On Thu, 12 Feb 1998 20:09:00 +0200 Arjen Raateland

<Arjen.Raateland@vyh.fi> writes:

>Hi gang,

>

>Since I have put a KC-2 into my Sierra it has developed a slight
>warble

>in the RX signal tone at some settings of the controls and certain
>signal strengths. I haven't made any statistics about the phenomenon,
>but sometimes I notice it and sometimes not. Also there is a very
>slight

>shift of frequency when switching from frequency display to S meter
>mode. It's not a BIG deal, but perhaps there is something that I can
>do

>about it the next time I open the rig for modifications.

>

>The VFO signal is fed to the buffered input of the KC-2 using a hookup
>wire (sturdy multistrand teflon coated wire from you know who on this
>list ;-). The 10 pF coupling cap is at the main PCB side of the
>wire.

>The KC-2 is at the spot where Wilderness put the holes for it and the
>wire is more or less straight.

>

>In the opinion of the list, would it help to replace the wire with
>miniature coax? Should I make the coupling cap smaller?

>

>I also used hookup wire (and the same 10 pF coupling cap) when I had a
>KC-1 in the Sierra and that didn't cause any problems. I still have
>some

>very nice RG174-like teflon coax from 20 yrs ago, but thinking that
>the

>capacitance of the coax might cause a problem or two, I again used
>hookup wire.
>
>I'd be grateful for any opinions on this (small) subject.
>oh2zaz
>--
>Arjen Raateland
>Finnish Environment Institute
>SAS Support
>phone +358 9 4030 0457
>
>

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Date: Fri, 20 Feb 1998 22:53:21 -0800
From: Monte Stark <ku7y@dri.edu>
To: dave_epps@juno.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [4428] Re: SMITtEn
Message-ID: <34EE79E1.831CF2F7@dri.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi Dave,

Not yet, but I will be whenever I get them!

Sound like fun, cu1,

--

73, Ron, KU7Y

NRA Life-----Ex W6JX0, DL4RF, N7CRV-----SOWP #5545-M
QRP ARCI #8829----NorCal #330----QRP-L #17-----ARS #49
AR QRP #150-----DM09cg-----New Washoe City, NV

Date: Fri, 20 Feb 1998 23:06:26 -0800

From: Monte Stark <ku7y@dri.edu>
To: daniel@pandora.lugs.org.sg
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [4429] Re: HELP With DSP Software
Message-ID: <34EE7CF2.13892B9E@dri.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi All,

Good topic! There was a lot of discussion awhile back about the TS870 not doing well on 160 and 80 because there are no IF filters. Usable on 40 and very good on 20 and up.

The 870 has ONLY DSP. No IF filters.

By contrast, the 1000MP has both. Even on 160m you can put the DSP all the way down to 60 hz and a station who is a few cycles away and is 30 to 40 db over S9 will not keep you from copying a sig that is only one s unit above the noise.

If you open up the IF filters, the thumping wipes the weak station out!

So the question of needing or not needing IF filters when you have DSP, is really a matter of how you will be using the radio.

I would think that in ALL cases it will sure help. But the IF filters can also be worth the money when you need them!!

Either one is good, but both are better!

cul,

--

73, Ron, KU7Y

NRA Life-----Ex W6JX0, DL4RF, N7CRV-----SOWP #5545-M
QRP ARCI #8829----NorCal #330----QRP-L #17-----ARS #49
AR QRP #150-----DM09cg-----New Washoe City, NV

Date: Sat, 21 Feb 1998 08:30:43 +0100
From: Frank.DH0JAE@t-online.de (Frank Schuster)
To: qrp-l@Lehigh.EDU
Cc: gqrp-l@blacksheep.org
Subject: [4430] QRP in ARRL-Contest

Message-ID: <m0y690V-0003bSC@fwd15.btx.dtag.de>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8BIT

Hallo QRPer,

I am QRV with QRP in ARRL-DX-contest on saturday and sunday from

13.00 UTC to 15.00 UTC on 21.110 mc for any QSOs.

Skeds also possible. My station QRP+ - pwr: 5 watts - ant: vertical R7000

73 es 72! de Frank
DH0JAE, QRV only in QRP
G-QRP-C 6807, DL-QRP-AG *FM*

Date: Sat, 21 Feb 1998 09:52:24 +0000
From: Leon Heller <leon@lfheller.demon.co.uk>
To: kc5tja@topaz.axisinternet.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [4431] Re: PIC AF Filters
Message-ID: <PfcXROBYPq70EwwT@lfheller.demon.co.uk>
MIME-Version: 1.0

In message <Pine.LNX.3.96.980220182933.13944A-100000@topaz.axisinternet.com>, KC5TJA <kc5tja@topaz.axisinternet.com> writes
>I'm wondering if it'd be feasible to make an audio filter using a PIC
>chip, using 1-bit A/D and D/A conversion techniques. Does the PIC chip
>have enough memory and processor bandwidth to do this sort of thing? What
>would be involved?
>
>Just wondering -- not yet ready to build, but it may come in handy for my
>little rig that I'm still trying to build... :)

You need to do some arithmetic.

A typical 20 MHz DSP chip like the ADSP-2104 I'm using (instruction cycle time of 50 ns) which is optimised for this sort of thing requires about $N+6$ cycles for an FIR filter of length N . At an 8 kHz sampling rate (125,000 ns between samples) I have $125,000/50 = 2,500$ cycles available per sample. A 255-tap filter subroutine will typically take $255+6 = 361$ cycles, leaving me *loads* of time for other things. This is using 16-bit fixed-point arithmetic, with a 40-bit register available to

minimise rounding errors, and several instructions per cycle. You also need two N-word buffers, one for the filter delay line and one for the filter coefficients. For narrow CW filters, you generally need lots of taps. With SSB filters, you can get away with fewer taps. You also need some software to calculate your filter coefficients - it usually isn't feasible to do it manually.

The ADSP-2104 has a very easy to use algebraic assembly language, and is *very* simple from a hardware point of view. My web page:

http://www.lfheller.demon.co.uk/diy_dsp.htm

shows how easy it is to build your own DSP system.

If you do the sums, I think you will find it will be very difficult to implement this type of filter on a PIC, for AF. Digital filtering is sometimes implemented on PICs and similar devices, but primarily in connection with control systems, where the frequencies are much lower. You will need 16-bit arithmetic (including a multiply function), to get sufficient dynamic range, for starters.

Leon

--

Leon Heller: leon@lfheller.demon.co.uk <http://www.lfheller.demon.co.uk>
Amateur Radio Callsign G1HSM Tel: +44 (0) 118 947 1424
See <http://www.lfheller.demon.co.uk/dds.htm> for details of my AD9850
DDS system. See " ["/diy_dsp.htm](http://www.lfheller.demon.co.uk/diy_dsp.htm) for a simple DIY DSP ADSP-2104 system.

Date: Sat, 21 Feb 1998 08:18:30 -0800
From: Terres Family <terresfm@ncia.net>
To: ve6bpr@cnn.net
Cc: [qrp-l list <qrp-l@Lehigh.EDU>](mailto:qrp-l@Lehigh.EDU)
Subject: [4432] Re: HELP With DSP Software
Message-ID: <34EEFE56.6FBB@ncia.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

If using the earphone output from the rig, on a soundblaster card, can you use the MIC IN and would that need an impedance transformer?

tnx

Jerry AA10F

Date: Sat, 21 Feb 1998 10:47:36 -0500
From: "Bob Edwards, W4ED" <w4ed@flash.net>
To: sgc@sgcworld.com
Subject: [4433] SGC-2020 RX current
Message-ID: <34EEF718.A2F7CC82@flash.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Bob Gregg, Stephanie Deatrich

Having an SGC-2020 on order, and having suggested the RX current be reduced from 150 ma (via email 4/17/97) I am very interested in a typical RX current as suggested in the FAQ #14 from your WWW page : <http://www.sgcworld.com/FAQ/faq2020.htm#1>

> 1. What is the receive current requirement?
>
> Standby current consumption is less than 430 mA .
> Well suited for "D" type batteries.

> 14. What suggestions do you have for lowest possible battery
> consumption?
>
> Use headphones and turn off the backlight.

Thanks,

--

Bob 72/73

<http://www.qsl.net/w4ed>

W4ED nr Atlanta @EM73wt

...."QRP", more from less....

```
      /|
     / |
    /  | \
   /| / E | \
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 [ \--===== -/
```

Date: Sat, 21 Feb 1998 07:49:55 -0800
From: "D.K. Philbin" <dphilbin@slonet.org>
To: qrp-1@Lehigh.EDU
Subject: [4434] Elmer 101 - Your favorite DVM??
Message-ID: <3.0.5.32.19980221074955.007feb70@slonet.org>
Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

The time has come to retire my old Radio Shack Micronta pocket DVM.

I am looking for a replacement DVM that includes a capacitance function. It would be nice if it included Hfe as well.

I am not looking for a lab grade instrument but one that will serve me well as I continue homebrewing.

One frustration with the old Micronta is that the only range on the Ohm's function is Kilo..the residual error is enough to mask low value resistor readings.

I would like to have a maximum cost of under \$100.

Thanks,

D.K. Philbin KD6TK

Date: Sat, 21 Feb 1998 11:24:27 EST
From: nq2rp@juno.com (B/BAMS Club Station)
To: qrp-l@lehigh.edu
Subject: [4435] Re: DR-110 Lamps
Message-ID: <19980221.112317.7535.0.nq2rp@juno.com>

Sorry, Tim. I hit the wrong key and deleted your post before I could reply directly.

The DR-110 and DR-510 use the same bulbs, and Radio Shack has an equivalent, but still only a 12 volt bulb. No catalog here in the club, but they come 2 in a pack for around a buck...

One of the locals, Bob, W2XG, took a 24 volt bulb and stripped the bulb out of the plastic housing for a project. Maybe there's one that will do the job that way.

For the ultimate in bulb life, consider the "Ultra-Bright" LED's in the Hosfelt Electronics catalog. They have a 8000 mcd yellow LED in a 5 mm package (p/n 25-335) for \$1.25/ea and \$0.99/ea in quantities over 100. Their phone # is 1-800-524-6464 and 1-888-264-6464 Give them a ring for their free catalog. Hosfelt takes plastic, and they also have a toll-free FAX line (800-524-5414) No web site listed...

5 mm is bigger than the bulbs you have now, but these are bright enough that you may be able to just "shine" them thru the mounting holes and get your backlighting...

72/73, Keith, WB2VUO at the keys at B/BAMS
NQ2RP - QRP-L # 1294, Byron/Bergen AMateurS Club Station
Listen for our 10 Mtr Milliwatting Beacon: 125 mW @ 28.287 MHz
"Our night light runs more power than our Rig!!!"

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Date: Sat, 21 Feb 98 8:49:27 PST
From: Paul Erickson <paul1@wizard.ucs.sfu.ca>
To: qrp-l@Lehigh.EDU (qrp)
Subject: [4436] SGC-2020 computer command set?
Message-ID: <9802211649.AA07779@wizard.ucs.sfu.ca>

Does anyone know what command set SGC is using with their rs232 interface for the SGC - 2020.

cheers, Paul
ve7cqk
email: paul1@wizard.ucs.sfu.ca

Date: Sat, 21 Feb 1998 11:55:28 EST
From: ARDUJENSKI@aol.com
To: qrp-l@Lehigh.EDU
Subject: [4437] QRP/QRO TUNER
Message-ID: <1c363451.34ef0702@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

Just a note to let those of you that would like an inexpensive QRO/QRP TUNER the MODIFIED Z-MATCH shown in PRACTICAL WIRE ANTENNAS works great over the

whole HF range and is very simple to build. The size of the unit depends upon the size of the variable caps. I have one almost done using cascaded capacitors and trimmers to fine tune. Will let you know how that works out in a few weeks. Key words are CHEAP, EASY, and WORKS.

Alan KB7MBI

Date: Sat, 21 Feb 1998 09:02:15 -0800
From: Monte Stark <ku7y@dri.edu>
To: QRP-L <qrp-l@Lehigh.EDU>
Subject: [4438] DXCC in a day.
Message-ID: <34EF0897.D8BB308C@dri.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi All,

I just listened to 15m CW. Lots of EU stations booming in.

For those who want DXCC QRP, this is your chance to get it all in one weekend.

The band is not crowded and condx seem good. Ten meters will open soon I'll bet. At least a little bit!

So go get em'..... you will have two things happen for sure..... your CW skills will improve by a LOT and you will have FUN.

Now, how many are going to get QRP DXCC this weekend?

cul,

--

73, Ron, KU7Y

NRA Life-----Ex W6JX0, DL4RF, N7CRV-----SOWP #5545-M
QRP ARCI #8829----NorCal #330----QRP-L #17-----ARS #49
AR QRP #150-----DM09cg-----New Washoe City, NV

Date: Sat, 21 Feb 1998 11:36:53 -0500
From: tracy@orlando.com (Tracy)
To: "QRP-L (E-mail)" <qrp-l@Lehigh.EDU>

Subject: [4439] RE: HELP With DSP Software
Message-ID: <01BD3EC2.D4805680.tracy@orlando.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

Has anyone reviewed the software available from TAPR on their site for psa dsp soundcards? They have software for filters, and a particularly interesting set of programs that allow you to make an audio oscilloscope using the cards.

>From what I understand, guys have used the filters for both receive audio and to do speech processing for ssb transmissions. Others have fashioned mixers (basically DC receivers) to monitor their sigs on the scopes. Any input on this?

Tracy, N4LGH
#1453

Date: Sat, 21 Feb 1998 09:28:24 -0800
From: Vic Rosenthal <rakefet@rakefet.com>
To: n4xy@bellsouth.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [4440] Re: UPDATE ON SG-2020!
Message-ID: <34EF0EB8.E5DF5E9D@rakefet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Ed Tanton wrote:

> Perhaps the '2020 will take over!!!

If we're talking about 'insanely great radios that aren't out yet', I cast my vote for the Elecraft K2. It seems to have everything, plus the Big One: it's a kit! That means that I can build it, completely understand it, and be able to fix and/or modify it to my liking. I enjoy the performance of my TS850s, but God help me if anything complicated goes wrong with it. And I've learned that I'm very picky about certain aspects of a rig's functionality --like QSK. The QSK in my 850 could definitely be improved, but I don't dare mess about in there among the SMT components, fancy boards, and undocumented firmware.

I'm already thinking about stuff that I can sell and ways to squirrel away the bucks
for a K2.

Vic K2VCO
Fresno CA

Date: Sat, 21 Feb 1998 09:26:48 -0800
From: Conrad <radman@best.com>
To: "'dphilbin@slonet.org'" <dphilbin@slonet.org>, Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [4441] RE: Elmer 101 - Your favorite DVM??
Message-ID: <01BD3EAA.D6443A80@radman.vip.best.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: quoted-printable

DK,

Have a look at the Fluke 70 series meters. You might find a classic =
Fluke 76 for around \$100 on close-out if you shop around. Now =
discontinued - it has been replaced by a restyled product. The classic =
76 is a _lot_ of meter for the money... used to mail-order for \$179. =
Sorry I don't have a number for you to call. (Personal favorite is the =
Fluke 87... but, that costs more.)

Good luck in your search,

72 -- Conrad -- nn6cw.=20

To: Low Power Amateur Radio Discussion
Subject: Elmer 101 - Your favorite DVM??

The time has come to retire my old Radio Shack Micronta pocket DVM.=20

I am looking for a replacement DVM that includes a capacitance function. =
It
would be nice if it included Hfe as well.
I am not looking for a lab grade instrument but one that will serve me =
well
as I continue hombrewing.

One frustration with the old Micronta is that the only range on the =

Ohm's
function is Kilo..the residual error is enough to mask low value =
resistor
readings.

I would like to have a maximum cost of under \$100.

Thanks,

D.K. Philbin KD6TK

Date: Sat, 21 Feb 1998 09:33:06 -0800
From: Vic Rosenthal <rakefet@rakefet.com>
To: tpettibo@nmsu.edu, Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [4442] Re: Help w/Alinco DR110
Message-ID: <34EF0FD2.BFA5A754@rakefet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Timothy J. Pettibone wrote:

>
> I keep burning out the incandescent
> lamps. They are little tiny things - I think T 3/4 or smaller.

You can probably get replacements at Radio Shack. Bring one with you to be sure
of
the size. Hopefully, they are all wired together, because then you can put, say,
4
or 5 diodes in series with the supply to them to drop the voltage (about 0.4v per
diode). That should be enough to make them last longer.

Vic K2VCO

Date: Sat, 21 Feb 1998 12:33:33 -0500
From: kc4mhm@juno.com
To: qrp-1@Lehigh.EDU
Subject: [4443] SMite is alive

Message-ID: <19980221.124249.3262.0.KC4MHM@juno.com>

Gang:

Last week I posted a problem with my SMite. It had a lot of LO bleed through and a terrable buzz in headset. The 'scope showed a strange waveshape only when the headset was plugged in. Last night I tried again and had no output. I hooked the rig up to the shack 12 volt supply and all was fine. The 9 volt battery would not carry a load and all the problems resulted from the low voltage. A fresh 9 volt battery was installed and all checks fine with the QRO test standard (FT-one). Always check the easy stuff first.

73 Ed KC4MHM@juno.com

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Date: Sat, 21 Feb 1998 12:44:42 -0500
From: "Bob Kellogg" <ae4ic@nr.infi.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [4444] Re: PIC AF Filters
Message-ID: <199802211759.MAA02043@mailhost.infi.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Man, all of this dicussion about using PICs or Microprocessors to do things like filter audio, etc., has me salivating.

If I ever get caught up on KnightSMiTe orders and the dozen other unfinished projects in my shack, I'd like to fool with some Microprocessor stuff for rig control. So much fun! So little time :-(

Bob Kellogg, AE4IC, Greensboro, NC
Prolably, but not nececelery. -- Benny Hill

Date: Sat, 21 Feb 1998 11:01:24 +0000
From: Roger Hightower <n7kt@earthlink.net>

Date: 21 Feb 1998 11:36:42 -0700
From: K0su@kktv.com
To: qrp-l@lehigh.edu
Subject: [4447] Tnx Fiber QRP
Message-ID: <199802211832.NAA46324@nss4.cc.Lehigh.EDU>

Tnx to everyone who responded. Lots of great ideas of course from this group. The amount of light power used with fiber optics is at the QRP level even if my need is not what we would think of as a QRP radio application.

73, Rick
K0SU
Colorado Springs, CO
CQC #100 -- QRP-L #539
www.qsl.net/k0su

Date: Sat, 21 Feb 1998 11:14:15 PST
From: "Ray Lowe" <wd5dhk@hotmail.com>
To: qrp-l@Lehigh.EDU
Subject: [4448] Re: HELP With DSP Software
Message-ID: <19980221191415.26186.qmail@hotmail.com>
Content-Type: text/plain

I have had excellent results with audio filtering(both analog and dsp) by turning off the agc. I then control the gain with the R.F. gain control to limit strong signals. I also have had good success using an audio limiter to limit the audio levels to prevent ear shattering strong signals with the agc turned off.

While it is true that these filters may not match I.F. filters, they do go a very long way in improving reception. Besides, if you use D.C. receivers/transceivers(I have 3 at the moment), it is the only way to filter out the qrm.

72/73
Ray Lowe
WD5DHK
Lancaster, Tx (near Dallas)
<http://members.wbs.net/homepages/w/d/5/wd5dhk.html>

Get Your Private, Free Email at <http://www.hotmail.com>

Date: Sat, 21 Feb 1998 14:34:17 -0500
From: "Ron Polityka" <wb3aal@talon.net>
To: "QRP-L" <qrp-l@Lehigh.EDU>
Subject: [4449] EPA QRP Web Page
Message-ID: <01bd3eff\$b2e55b00\$6a5445c6@default>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello All,

Just taking a break from the contest. I now have the
WB3AAL Web Page up with a link to the
EPA QRP Clubs Web Page which is under construction.

<http://www.kpsnet.com/wb3aal/wb3aalweb.htm>

73, Good DXing & QRPing
Ron de WB3AAL

E-mail: wb3aal@talon.net
BBS: WB3AAL @ WB3FYL.#BER.PA.USA.NA

EPA QRP # 1 QRP # 5318 10-10 # 13173
QRP-L # 1099 G-QRP # 3031 AK QRP # 309

Date: Sat, 21 Feb 1998 11:43:59 -0800
From: "ALAN KAUL" <alan.kaul@worldnet.att.net>
To: <ku7y@dri.edu>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [4450] Re: DXCC in a day.
Message-ID: <19980221194527.AAA16771@oemcomputer>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Ron, et al

An admirable goal....

RON is right, there are a lot of stations on. But I gave up trying to work the contest QRP (even with a minimal tri-band Yagi). Last night I called station after station at 5 Watts on 15 and 20 (JA was pounding into LA at 5pm local time), but after countless unsuccessful calls, I cranked power back up to near 100W and started putting DX stations in the log.

Now, I admit I am topographically challenged -- my QTH is at the drainage line (low point) of a valley in the mountains above Los Angeles. Horizon to West and South are within a mile and are a few hundred feet higher than my antenna. The horizon to the North is a little farther away, but is about 3000 feet higher. Not good.

There are those QRP stations that will do well in the ARRL DX Contest, but it is still the toughest of the major contests for the QRP-op. Why? Because for USA stations there are no Canadian multipliers. Sure, Mexico might be close---but if you live in the West, the next mult is Alaska. If you live in the East, the next mult is closer--VP5, C6A, C02, KP4, etc. But no matter where you live, if you have a good antenna you ought to be able to work a number of mults.

Interesting thing about the ARRL contest is the exchange for the foreign stations -- they give you a signal report and their power. I'm only 125-QSO's into the contest but I have only worked one station claiming 5W power (JA6UBK) and he was weak enough on my end to require a few go-arounds to get his complete call. Please don't get me wrong--this is not a flame. Get on the air and work some new ones, BY ALL MEANS! It is fun, but it can be frustrating, too.

Have realistic expectations! Good luck and best 72/73,

de Alan Kaul, W6RCL, LaCanada-Flintridge, CA
<http://home.att.net/~alan.kaul/qrp.html>
alan.kaul@worldnet.att.net
w6rcl@amsat.org

Date: Sat, 21 Feb 1998 11:48:18 -0800
From: Laura Halliday <ve7ldh@direct.ca>
To: qrp-1@Lehigh.EDU
Subject: [4451] Re: PIC AF Filters
Message-ID: <34EF2F82.4E323C7E@direct.ca>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Leon has shown some things a PIC can't do. Simple arithmetic suffices.

Some more simple arithmetic: consider the fastest PICs, the 17C4x series. They have a maximum clock speed of 33 MHz, so they execute 8.25 million instructions per second (as long as they're not branches). Given a 10 kHz sample rate, this means that we can execute 825 instructions per sample. Round it down to 800 for branches (two cycles, remember?).

The 17C PICs have hardware multiply, which makes a lot more of those 800 instructions available. 16 bit arithmetic is out, but 8 bit arithmetic is available, though you are going to need multiple precision addition, and will get no help from the hardware to do it.

If you want to do more general applications, follow Leon's advice and get a real DSP.

I hope I haven't oversold these things - they are **not** magic, nor have I ever suggested they were. They are small, cheap, accessible microcontrollers. Nothing more. Like all technology, they have capabilities and limitations. Their function is deterministic, and it doesn't take much analysis to tell what is possible and what isn't.

...laura

Date: Sat, 21 Feb 1998 14:59:57 -0500
From: "Jeff s Walgren" <JWALGREN@prodigy.net>
To: <qrp-1@Lehigh.EDU>
Subject: [4452] Fw: SW -30 troubles
Message-ID: <199802211957.0AB24074@pimout1-int.prodigy.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Hi

Name here is Jeff, in Lancaster, PA. I'm building the sw-30, my first kit. Things were going smoothly until I removed 1 turn from the coil L1. Before I did this i did hear a hum when I touched either of the 10k resistors to the left of the af amp. After removing the coil I don't hear anything. All voltages are close and I don't see any obvious bridges.

What's next?

Jeff (n3muo)

Date: Sat, 21 Feb 1998 14:06:09 -0600
From: Dave Sjolín <sjolin@swbell.net>
To: alan.kaul@worldnet.att.net
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [4453] Re: DXCC in a day.
Message-ID: <34EF33B1.716F@swbell.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

ALAN KAUL wrote:

>
> RON is right, there are a lot of stations on. But I gave up trying to work
> the contest QRP (even with a minimal tri-band Yagi). Last night I called
> station after station at 5 Watts on 15 and 20 (JA was pounding into LA at
> 5pm local time), but after countless unsuccessful calls, I cranked power
> back up to near 100W and started putting DX stations in the log.
>

Give it a try tonight and especially tomorrow. A lot of the DX will be
begging for contacts. First night is notoriously difficult.

Why is that the people will calls like V26B and so on are always the
ones transmitting at 45 wpm. I've always had problems differentiating b
and 6 as well as v and 4. At 35 wpm ok, but higher my brain turns to
slush.

73 de Dave, N0IT

Date: Sat, 21 Feb 1998 12:51:11 PST
From: "Ray Lowe" <wd5dhk@hotmail.com>
To: qrp-1@Lehigh.EDU, tpettibo@nmsu.edu
Subject: [4454] Re: Help w/Alinco DR110
Message-ID: <19980221205111.19429.qmail@hotmail.com>
Content-Type: text/plain

Tim,

When you do get the replacement lamps, you might try

wiring two of the bulbs in series instead of wiring each one to its own +12 source. This will make the bulb dimmer, but it will greatly extend the life of it if you can deal with the lower light output (ie qrp light output). I am not familiar with the inside of the rig, so I am not sure if this is feasible or not, but if it is, give it a try. hope this helps.

72/73

Ray Lowe

WD5DHK

Lancaster, Tx (near Dallas)

<http://members.wbs.net/homepages/w/d/5/wd5dhk.html>

Get Your Private, Free Email at <http://www.hotmail.com>

Date: Sat, 21 Feb 1998 14:12:26 -0800

From: dave_epps@juno.com

To: qrp-l@Lehigh.EDU

Subject: [4455] sst rcvr

Message-ID: <19980221.141229.3750.4.dave_epps@juno.com>

Just copied a station 70 miles west of Tracy on 7.040 mhz and he was running "20 milliwatts" so I would say the sst rcvr does a pretty good job of pulling in the weak ones.
dave ab5pc fresno, ca.

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Or call Juno at (800) 654-JUNO [654-5866]

Date: Sat, 21 Feb 1998 15:47:13 -0600

From: "Marshall Emm" <mgemm@mtechnologies.com>

To: qrp-l@Lehigh.EDU, cqcllist@lists.csn.net

Subject: [4456] Interest in single lever paddle?

Message-ID: <199802212246.PAA26387@edison.chisp.net>

MIME-Version: 1.0

Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

I've got a sample of the MK-702 SINGLE lever paddle from Hi-Mound, and would appreciate knowing whether there is a market for such a beast [g]. Please let me know if you would be interested in this paddle, and if there is enough interest I will order some in from Tokyo. If there isn't much interest, I will either sell the sample or "collect" it.

The mechanism is very similar to the MK-706 dual paddle (image available at <http://www.mtechnologies.com/hk.htm>) -- but with one paddle that swings both ways (e.g. side-swiper).

It doesn't come with a plastic cover, but it is on a heavy natural marble base with rubber (or rubbery plastic) sub-base. It weighs about 2 Lbs 5 oz. Selling price will be \$99.95 (the marble base is why it is a tad more expensive than the MK-706).

73
Marshall Emm
N1FN/VK5FN
n1fn@mtechnologies.com
Milestone Technologies
Software, kits, tools...
<http://www.mtechnologies.com>
(303)752-3382
--

Date: Sat, 21 Feb 1998 15:58:19 -0800 (PST)
From: rheiss@sprynet.com (Rob Heiss)
To: qrp-1@Lehigh.EDU
Subject: [4457] Ten open for DX
Message-ID: <199802212358.PAA10064@m5.sprynet.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

Since a KW neighbor was crunching my receiver on 15, I checked the other bands and discovered 10 meters was sounding pretty darn good today. In the past, I didn't even bother with 10 CW but what the hell. With two watts and a wire I made seven contacts before it closed around 2130z.

73, Rob K06KA
rheiss@sprynet.com

End of QRP-L Digest 1008

